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Dated: 7/25/05

Signature: *Maureen Divito*

(Maureen Divito)

Docket No.: (107262.202US1)  
7090USAPO2/NBD/OPTICS/JB1  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Claes BJORKMAN et al.

Application No.: 10/623666

Confirmation No.: 5063

Filed: July 21, 2003

Art Unit: 2874

For: OPTICAL READY SUBSTRATES

Examiner: S. U. Song

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant brings to the attention of the Examiner the documents listed on the attached Form PTO-1449.

This Information Disclosure Statement is being filed after the mailing date of the first Office Action on the merits and before the mailing date of a final Office Action under §1.113 or a Notice of Allowance under §1.311. Please charge the \$180 fee to our Deposit Account No. 08-0219.

Applicant requests that the Examiner initial and return a copy of the enclosed Form PTO-1449 with the next communication.

Our records indicate that the copies of Form PTO-1449 which were previously submitted on November 3, 2003 have not been initialed and returned to us. For your convenience we have also enclosed a copy of the previously submitted PTO-1449 and ask you to also initial and return that form as well.

Dated: July 25, 2005

Respectfully submitted,

By *Eric L. Prahl*

Eric L. Prahl

Registration No.: 32,590

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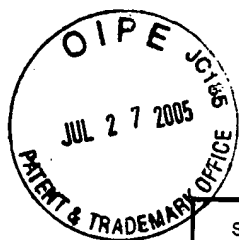
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Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/623666
				Filing Date	July 21, 2003
				First Named Inventor	Claes BJORKMAN
				Art Unit	2874
				Examiner Name	S. U. Song
Sheet	1	of	1	Attorney Docket Number	0107262.00202US1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-2002/0146865 A1	10-2002	Hoel, Jeffrey H.	
		US-2004/0012041 A1	10-2002	King et al.	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

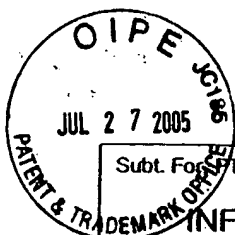
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AA	Janz et al. (1998) "Optical Properties of Pseudomorphic Si <sub>1-x</sub> Gex for Si-Based Waveguides at the $\lambda=1300$ -nm and 1550-nm Telecommunications Wavelength Bands". <i>IEEE Journal of Selected Topics in Quantum Electronics</i> . Vol. 4 (6)	
	AB	Schuppert et al. (1989) "Optical Channel Waveguides in Silicon Diffused from GeSi Alloy". <i>Electronics Letters</i> . Vol. 25 (22)	
	AC	Soref et al. (1991) "Large Single-Mode Rib Waveguides in GeSi-Si and Si-on-SiO <sub>2</sub> ". <i>IEEE Journal of Quantum Electronics</i> . Vol. 27 (8)	
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	AE	Splett et al. (1990) "Low Loss Optical Ridge Waveguides in a Strained GeSi Epitaxial Layer Grown on Silicon". <i>Electronics Letters</i> . Vol. 26(14)	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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Subt. Form TO-1449				Docket Number 107262.180 US1		Application Number 10/280,505	
INFORMATION DISCLOSURE IN AN APPLICATION  (Use several sheets if necessary)				Applicant Bjorkman et al.			
				Filing Date 01/06/2002		Group Art Unit 2874	
Sheet	I	OF	4				

**COPY**

### U.S. Patent Documents

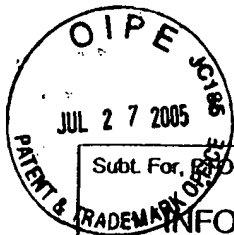
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Subt. For, PTO-1449				Docket Number 107262.180 US1		Application Number 10/280,505	
<b>INFORMATION DISCLOSURE IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>				<b>COPY</b> Applicant Bjorkman et al.			
Sheet		2		OF		4	
				Filing Date October 25, 2002		Group Art Unit 2874	

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Subt. For. P. 10-1449

Docket Number

107262.180 US1

Application Number

10/280,505

**INFORMATION DISCLOSURE  
IN AN APPLICATION**

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Applicant

Bjorkman et al.

Filing Date

October 25, 2002

Group Art Unit

2874

Sheet

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OF

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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**Foreign Patent Documents**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 03/036369 A1	May 1, 2003	PCT				

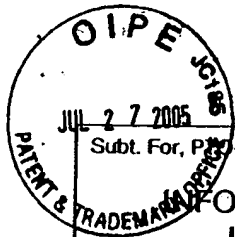
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	A	Chen et al., "Fully Embedded Board-Level Guided-Wave Optoelectronic Interconnects," Proceedings of the IEEE, Vol. 88, No. 6, June 2000, pp. 780-793
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	C	Irace et al., "Fast Silicon-on-Silicon Optoelectronic Router Based on a BMFET Device," IEEE Journal of Selected Topics in Quantum Electronics, Vol. 6, No. 1, January/February 2000, pp. 14-18
	D	Jalali et al., "Advances in Silicon-on-Insulator Optoelectronics," IEEE Journal of Selected Topics in Quantum Electronics, Vol. 4, No. 6, November/December 1998, pp. 938-947

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EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP § 609: Draw Line through citation if not conformance and not considered. Include copy with next communication to applicant.



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INFORMATION DISCLOSURE  
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(Use several sheets if necessary)

Docket Number

107262.180 US1

Application Number

10/280,505

Applicant

Bjorkman et al.

Filing Date

October 25, 2002

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2874

Sheet

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OF

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G	Kostal and Park, "Nano-optics: New Rules for Optical System Design," NanoOpto White Paper 2002.002, June 2002, pp. 1-10
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J	Yabu et al., "New Design Method for Low-Loss Y-Branch Waveguides," Journal of Lightwave Technology, Vol. 19, No. 9, September 2001, pp. 1376-1384
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L	Walker and Jahns, "Optical clock distribution using integrated free-space optics," Optics Communications 90 (1992) pp. 359-371
M	Walker et al., "Design and fabrication of high-efficiency beam splitters and beam deflectors for integrated planar micro-optic systems," Applied Optics, Vol. 32, No. 14, May 10, 1993, pp. 2494-2501

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